

Biomedical Research Seminar Series

Speaker Announcement

Friday, September 28, 2018 @ 3:30 pm

Domenici Hall, Room 109

(Refreshments served at 3:00)



Peter McGarvey, PhD

*Associate Professor
Department of Biochemistry and
Molecular & Cellular Biology
Georgetown University Medical Center*

Integration of Proteomics, Genomics and the Scientific Literature

Dr. McGarvey's talk will highlight resources and approaches for integrating genomic and proteomic data with knowledge from the scientific and medical literature. In the area of proteomics, the talk will describe how the UniProtKB knowledgebase annotates protein sequences from the scientific literature using combinations of biocuration and automated annotation tools. UniProt resources for mapping protein functional information and literature on protein variation to the human genome will be presented along with comparisons between genomic and proteomic variant annotation. In the rapidly evolving area of Precision Oncology the talk will describe efforts to capture, standardize and communicate results from molecular diagnostic tests (MoDx) of patient tumors and integrate them with treatment options in the literature and clinical trials. The Minimum Variant Level Data (MVL) framework developed in the ClinGen somatic working group will be presented as well as a usability study on current commercial MoDx reports. An ongoing project using Natural Language Processing (NLP) based text-mining systems for extracting information on somatic variation, treatments, and patient outcomes from the scientific literature to assist medical professionals and clinicians with cancer treatment options will also be described.



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For more information or to meet with the speaker please contact Ryan Ashley at ryashley@nmsu.edu